

Title (en)

NONAPEPTIDE AND DECAPEPTIDE ANALOGS OF LHRH USEFUL AS LHRH ANTAGONISTS, THEIR PREPARATION AND COMPOSITIONS CONTAINING THEM

Publication

EP 0097031 B1 19880921 (EN)

Application

EP 83303343 A 19830609

Priority

- US 38710182 A 19820610
- US 45167182 A 19821221
- US 47269283 A 19830307
- US 49522683 A 19830520

Abstract (en)

[origin: EP0097031A2] Nonapeptide and decapeptide analogs of LHRH which have the formula <IMAGE> and the pharmaceutically acceptable salts thereof, wherein: A is an amino acyl residue selected from the group consisting of L-pyroglutamyl, D-pyroglutamyl, N-acyl-D,L-tryptophanyl, N-acyl-glycyl, N-Ac-D,L- DELTA <3><,><4>-prolyl, N-Ac-D,L-prolyl, N-Ac-L-alkylprolyl, N-Ac-D,L-phenylalanyl, N-Ac-D,L-p-chlorophenylalanyl, N-Ac-D,L-seryl, N-Ac-D,L-threonyl, N-Ac-D,L-alanyl, 3-(1-naphthyl)-D,L-alanyl, 3-(2-naphthyl)-D,L-alanyl, 3-(2,4,6-trimethylphenyl)-D,L-alanyl, 3-(4-trifluoromethylphenyl)-D,L-alanyl, 3-(9-anthryl)-D,L-alanyl, 3-(2-fluorenyl)-D,L-alanyl, and 3-(Het)-D,L-alanyl wherein Het is a heterocyclic aryl containing radical selected from <CHEM> wherein A sec and A min are independently selected from the group consisting of hydrogen, lower alkyl, chlorine and bromine, and G is selected from the group consisting of oxygen, nitrogen and sulfur; B is an amino acyl residue selected from the group consisting of D-phenylalanyl, D-p-Cl-phenylalanyl, D-p-F-phenylalanyl, D-p-nitrophenylalanyl, 3-(3,4,5-trimethoxyphenyl)-D-alanyl, 2,2-diphenylglycine, D- alpha -methyl-p-Cl-phenylalanine and 3-(2,4,6-trimethylphenyl)-D-alanyl; C is an amino acyl residue selected from the group consisting of L-tryptophanyl, D-tryptophanyl, D-phenylalanyl, D-Me5phenylalanyl, 3-(2-pyridyl)-D-alanyl, 3-(3-pyridyl)D-alanyl, 3-(1-naphthyl)-D-alanyl, 3-(2-naphthyl)-D-alanyl and 3-(4-pyridyl)-D-alanyl. D is an amino acyl residue selected from the group consisting of L-seryl, and D-alanyl; E is an amino acyl residue selected from the group consisting of L-phenylalanyl and L-tyrosyl; F is an amino acyl selected from the group consisting of the radicals represented by the following structural formulas:

IPC 1-7

C07K 7/06; C07K 7/20; A61K 37/02

IPC 8 full level

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CPC (source: EP KR)

A61P 5/00 (2017.12 - EP); **C07K 5/06** (2013.01 - KR); **C07K 7/23** (2013.01 - EP); **A61K 38/00** (2013.01 - EP)

Cited by

US5480969A; EP0122712A3; US4647653A; US4866160A; US5470947A; US5763404A; US5171835A; US5084443A; US5198533A; DE3823590A1; EP1451207A4; EP0268066A3; EP0145258A1; EP0257950A3; EP0277829A3; EP0373545A3; US5071836A; US5656727A; EP0143573A1; US5863931A; EP0182262A3; EP0197798A3; EP0145032A1; US6620848B2; US6369272B1; US8063104B2; WO8901944A1; WO2006051314A3; US6355689B1; US6495606B1; JP2008519815A

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